## IN THE TITLE

Change the title wherever it appears to read as follows:

--Nitride Semiconductor Device with Improved Lifetime and High Output Power--.

## IN THE ABSTRACT

Insert the attached Abstract after the claims pages. A marked-up Abstract is also attached.

## IN THE CLAIMS

Cancel claims 1 and 16.

Please substitute the following amended claims for corresponding claims previously presented. A copy of the amended claims showing current revisions is attached.

- 3. (Amended) The nitride semiconductor device according to Claim  $\frac{1}{2}A$ , wherein said active layer has L ( $L \ge 2$ ) barrier layers so that the barrier layer arranged in a position nearest to said n-type nitride semiconductor layer is denoted as barrier layer  $B_1$  and the i-th barrier layer (i=1, 2, 3, ...L) counted from the barrier layer  $B_1$  toward said p-type nitride semiconductor layer is denoted as barrier layer  $B_i$ ; and barrier layers  $B_i$  from i=1 to i=n (1 < n < L) include an n-type impurity.
- 4. (Amended) The nitride semiconductor device according to Claim 24, wherein the entire barrier layers other than said first barrier layer include an n-type impurity.



- 5. (Amended) The nitride semiconductor device according to Claim 24, wherein said first barrier layer is arranged in the outermost position in said active layer.
- 6. (Amended) The nitride semiconductor device according to Claim 24, wherein said second barrier layer is arranged in the outermost position close to said n-type nitride semiconductor layer within said active layer.

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- 9. (Amended) The nitride semiconductor device according to Claim 24, wherein at least one well layer within said active layer has a film thickness of not less than 40 Å.
- 10. (Amended) The nitride semiconductor device according to Claim 24, wherein said first barrier layer has a p-type impurity.
- 11. (Amended) The nitride semiconductor device according to Claim 24, wherein said first barrier layer includes a p-type impurity in the range of no less than  $5\times10^{16}$  cm<sup>-3</sup> and no more than  $1\times10^{19}$  cm<sup>-3</sup>.
- 12. (Amended) The nitride semiconductor device according to Claim 24, wherein said first barrier layer is p-type or i-type.

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- 14. (Amended) The nitride semiconductor device according to Claim 24, wherein said n-type nitride semiconductor layer, said active layer and said p-type nitride semiconductor layer are layered in sequence.
- 15. (Amended) The nitride semiconductor device according to Claim 24, wherein said p-type nitride semiconductor layer has an upper clad layer made of a nitride semiconductor that includes Al of which the average mixed crystal ratio x is in the range of 0 < x < 0.05;



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said n-type nitride semiconductor layer has a lower clad layer made of a nitride semiconductor that includes Al of which the average mixed crystal ratio x is in the range of  $0 < x \le 0.05$ ; and

## the nitride semiconductor device has a laser device structure.

said first p-type nitride semiconductor layer is provided so as to contact a barrier layer nearest to said p-type nitride semiconductor layer and has been grown being doped with a p-type impurity of which concentration is higher than that of said barrier layer in said active layer.

1. 18. (Amended) The nitride semiconductor device according to Claim 24, wherein the number of well layers in said active layer is from 1 to 3.

18.19. (Amended) The nitride semiconductor device according to claim 24, in said active layer said second barrier layer is arranged between well layers and the film thickness ratio Rt (= [film thickness of a well layer] / [film thickness of a barrier layer]) of said well layer to the second barrier layer is in the range of  $0.5 \le Rt \le 3$ .

19. 20. (Amended) The nitride semiconductor device according to claim 24, wherein the film thickness dw of said well layer is in the range of  $40 \text{ Å} \leq \text{dw} \leq 100 \text{ Å}$  while the film thickness db of said second barrier layer is in the range of db  $\geq 40 \text{ Å}$ .

21. (Amended) The nitride semiconductor device according to Claim 24, wherein said p-type nitride semiconductor layer has an upper clad layer made of a nitride semiconductor that includes Al and said n-type nitride semiconductor layer has a lower

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clad layer made of a nitride semiconductor, wherein the average mixed crystal ratio of Al in the upper clad layer is greater than that of the lower clad layer.

22. 23. (Amended) The nitride semiconductor device according to Claim 24;

wherein said active layer has a well layer of which distance dB from the first p-type nitride semiconductor layer is in the range of no less than 100 Å and no more than 400 Å and has a first barrier layer within the distance dB.

Add the following new claim:

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between p-type nitride semiconductor layers and n-type nitride semiconductor layers,

wherein said p-type nitride semiconductor layers has an electrons confining layer adjoining said active layer and made of nitride semiconductor that includes Al;

and said active layer has a quantum well structure including at least one well layer made of nitride semiconductor that includes In and barrier layers made of nitride semiconductor, wherein a first barrier layer arranged in the nearest position to said p-type nitride semiconductor layer among said barrier layers substantially does not have an n-type impurity, while a second barrier layer that is different from said first barrier layer has an n-type impurity.--